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Negatively chargeable toner for electrophotography - contg. charge
controlling resin formed by copolymerising sulphonic gp. contg. acryl
amide monomer with polyvinyl monomer e.g. polystyrene etc.

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2167565	A	19900627	JP 88115436	A	19880512	199032 B
JP 2623684	B2	19970625	JP 88115436	A	19880512	199730

Priority Applications (No Type Date): JP 88115436 A 19880512

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2623684	B2	8	G03G-009/097	Previous Publ. patent JP 2167565	

Abstract (Basic): JP 2167565 A

Toner comprises at least thermoplastic resin, colourant and charge
controlling agent contains a charge controlling resin (CCR) of formula
(I) which is formed by copolymerisation between sulphonic gp. contg.
acryl amide monomer, of which amt. of 1-20 wt% of the total components,
and a vinyl monomer selected from styrene, acrylic ester, methacrylic
ester and their mixt., where amt. of CCR is 0.1-10 pts. wt. and amt. of
charge controlling agent (CCA) other than CCR is 0.1-10 pts. wt. based
on 100 pts. of thermoplastic resin (where R1 = H or methyl; R2, R3 = H
or 1-10C alkyl; m = integer 1-10).

USE/ADVANTAGE - The toner is charged quickly and its performance
is stabilised giving copies of high density image and less fog. It is
partic. favoured for a high speed (eg greater than 40 cm/sec) copier as
it splashes less and causes less offsetting.

Dwg.0/0

Title Terms: NEGATIVE; CHARGE; TONER; ELECTROPHOTOGRAPHIC; CONTAIN; CHARGE;
CONTROL; RESIN; FORMING; COPOLYMERISE; SULPHONIC; GROUP; CONTAIN; ACRYL;
AMIDE; MONOMER; POLYVINYL; MONOMER; POLYSTYRENE

Derwent Class: A14; A89; G08; P84; S06

International Patent Class (Main): G03G-009/097

International Patent Class (Additional): G03G-009/09

File Segment: CPI; EPI; EngPI

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G06-G05

Manual Codes (EPI/S-X): S06-A04C1

Plasdoc Codes (KS): 0037 0203 0218 0231 0304 0306 3152 0495 0502 0642 2585
2806 2808

Polymer Fragment Codes (PF):

001 014 034 04- 040 05- 055 056 074 075 076 077 079 081 086 27& 546 575
583 589 59& 609 658 659 688 725